

ABSTRACT OF THE DISCLOSURE

In a method for producing a laser element, a brazing material is placed between a nitride-based semiconductor laser bar and a fixation surface of a heat sink, where
5 the brazing material contains gold and one of tin and silicon as main components, the nitride-based semiconductor laser bar has at least three light-emission points formed on a substrate, the heat sink is made of copper or copper alloy, and the fixation
10 surface has a predetermined shape. Then, the nitride-based semiconductor laser bar is fixed to the fixation surface of the heat sink by melting and solidifying the brazing material while pressing the nitride-based semiconductor laser bar toward the heat
15 sink with a tool having a shape corresponding to the predetermined shape of the fixation surface.